

# ABSTRACT OF THE DISCLOSURE

Sub USP

1. Arrangement of a heating layer for a high-temperature gas sensor.

2.1 In known high-temperature gas sensors, the operating temperature on the functional layer of the sensor can neither be exactly adjustingly set or measured, nor exactly regulated. The new arrangement shall make it possible to exactly adjustingly set the working temperature in a surface covering manner in the functional layer of the sensor.

2.2 For adjustingly setting an exact working temperature over the entire functional layer, the heating conductor path, which is arranged under the functional layer, is constructed in such a manner, so that it comprises various different partial heating resistances in the various regions, in that the path length and/or the width of the heating conductor path is varied from partial section to partial section.

2.3 Such arrangements are required especially for high-temperature gas sensors, which are utilized in the exhaust gas of a combustion engine.

20